

Electrokinetic sample preparation

A b s t r a c t

The present invention relates to a method which permits macromolecules (nucleic acids, proteins, viruses and bacteria) from biological materials such as blood, serum, CSF, urine, plants, cells, cell supernatants etc. and preparations thereof to be isolated, concentrated and made available for analysis. The macromolecules are initially concentrated electrokinetically on a membrane in a shallow channel. The concentrated macromolecules can be transferred electrokinetically via a transfer channel into an analytical microchannel for further processing.